

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-9. (Canceled)

10. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the electro-optical device,

wherein the illumination optical system comprises a polarized light generation section for emitting a predetermined polarized light,

the polarized light generation section comprising:

an optical component for dividing an incident light into two different polarized lights; and

a selective retardation plate for adjusting one of the two polarized lights output from the optical component to the other,

the optical component comprising:

a plurality of rock crystal members composed of rock crystal and arrayed in a predetermined direction; and

a polarization separation film and a reflection film that are alternately arranged on interfaces of the plurality of rock crystal members.

11. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the electro-optical device,

wherein the illumination optical system comprises a polarized light generation section for emitting a predetermined polarized light,

the polarized light generation section comprising:

an optical component for dividing an incident light into two different polarized lights; and

a selective retardation plate for adjusting one of the two polarized lights output from the optical component to the other,

the optical component comprising:

a rock crystal member composed of rock crystal; and

a polarization separation film formed on the rock crystal member.

12-15. (Canceled)

16. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

a color light separation optical system that divides the light emitted from the illumination optical system into first through third color lights respectively having three color components;

first through third electro-optical devices that modulate the first through the third color lights divided by the color separation optical system in response to image information, so as to generate first through third modulated lights;

a color light composition optical system for combining the first through the third modulated lights; and

a projection optical system for projecting composite light output from the color light composition optical system,

wherein at least one of the color light separation optical system and the color light composition optical system comprises an optical component, and

the optical component comprises:

four columnar rock crystal members composed of rock crystal and divided by a substantially X-shaped interface; and

a selector film formed on the interface to select light having wavelength in a predetermined range.

17-19. (Canceled)